

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 61-107886

(43)Date of publication of application : 26.05.1986

(51)Int. Cl.

H04N 7/12
H04N 7/137

(21)Application number : 59-229119

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(22)Date of filing : 31.10.1984

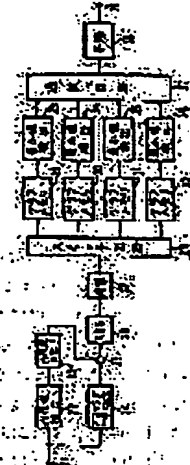
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(54) SMOOTHING CIRCUIT OF MOTION VECTOR

(57)Abstract:

PURPOSE: To decrease discontinuity in the time base direction of a motion vector and to improve a visual characteristic when the motion is corrected by using a strong correlation in the time base direction of the motion vector and executing the smoothing processing.

CONSTITUTION: A digital TV signal from the terminal 21 is supplied to a representative point extracting circuit 22 and a block data extracting circuit 24. An absolute value of the frame difference data from a converting circuit 26 is supplied to an integrating circuit 27, the integrating value of the frame difference data is supplied to a switch circuit 28 and distributed to graph memories 29~32 for an area each by the circuit 28. Frame difference integrating data stored in the memories 29~32 respectively are supplied respectively to minimum value detecting circuits 33~36. The motion vector from the circuits 33~36 respectively are supplied to a selecting circuit 37. The motion vector for one field unit from the circuit 37 is supplied to a smoothing circuit 37, the noise is removed, the discontinuity in the time base direction is decreased and removed to an output terminal 39.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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